



Earth Science



What is Earth Science?

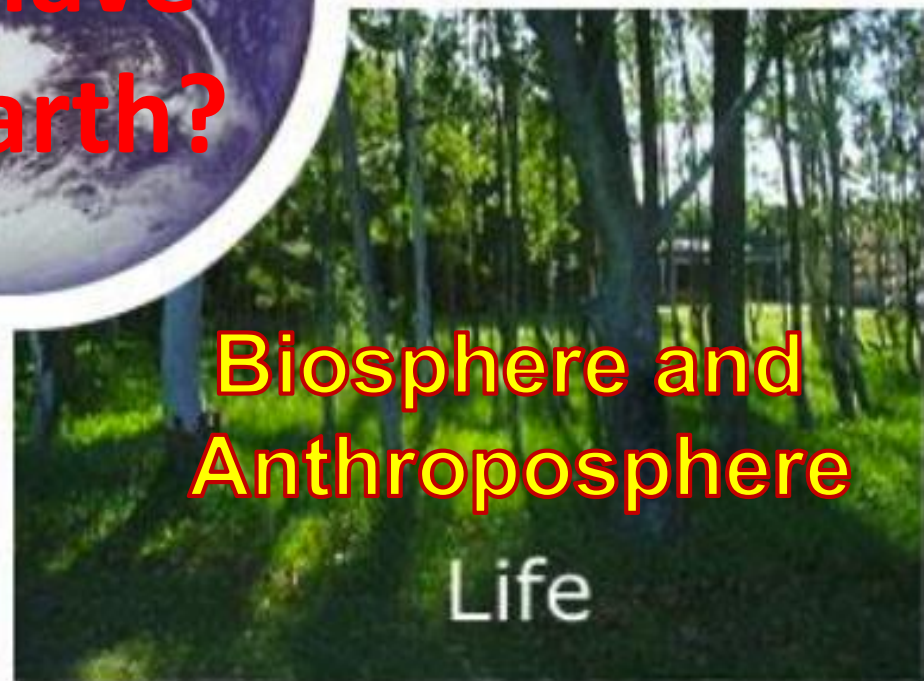
Fields of science dealing with planet Earth:

Geography, Geology, Geophysics, Hydrology, Glaciology, Meteorology, Atmospheric Physics, Ecology, etc.

What does Earth Science study?

How the Earth system works, and how it evolved to its current state.

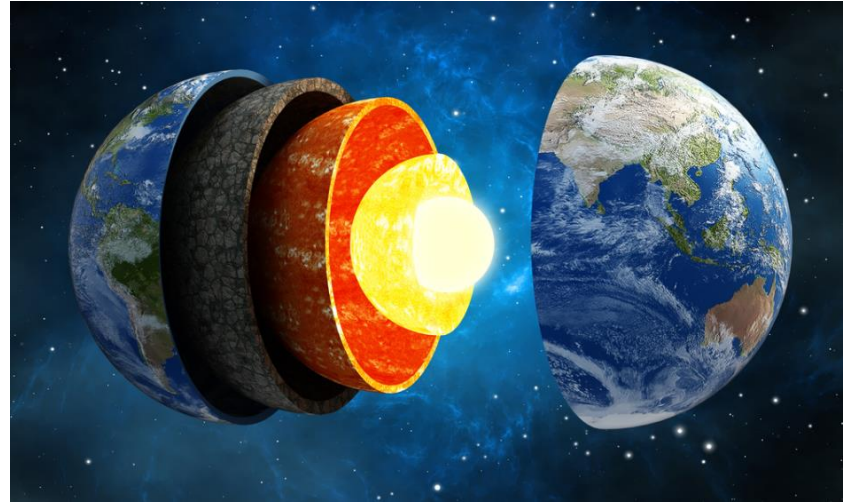
What is *Earth system*?



Physical Spheres of the Earth

1. PLANET EARTH

- Shape and size
- Formation
- Internal structure



2. LITHOSPHERE: The Solid Surface

- Types and age
- Tectonic processes
- Volcanic processes



Physical Spheres of the Earth

3. HYDROSPHERE: The Water

- Physical state of water
- Water cycle
- Ocean circulation, tides
- Glaciers, sea ice



4. ATMOSPHERE: The Air

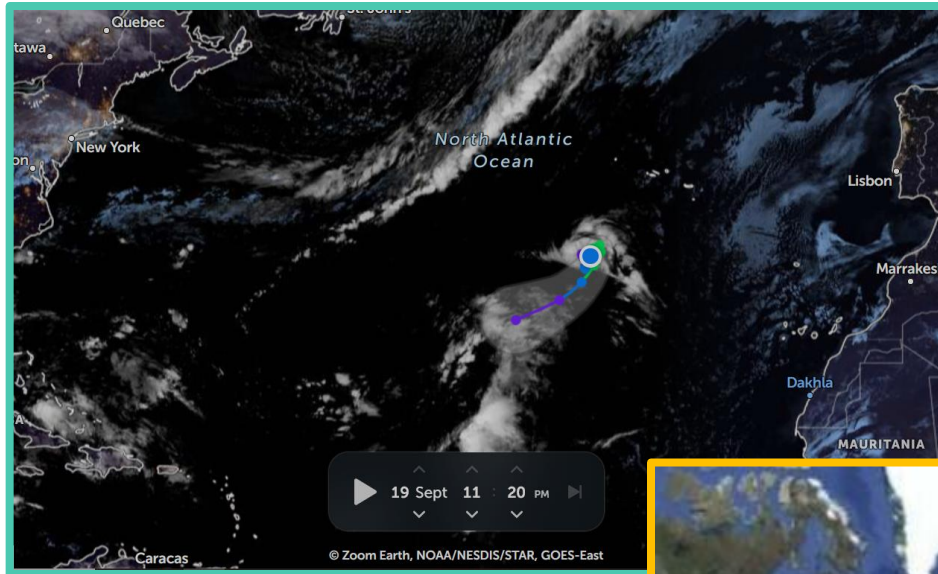
- Layers
- Air masses and wind
- Weather and storms



What do we see on Earth changing?



What's happening on Earth now?



The **Atlantic Hurricane season** is off to its quietest start on record, dating to the beginning of the satellite era (1960)

4 moderate earthquakes rocked the Earth yesterday (and over a 100 week ones!)



**Questions to think about
until the next class:**

What is Earth?

Where is Earth?